

INTERNATIONAL SEARCH REPORT

International Application No PCT/FR 91/00190

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁴

According to International Patent Classification (IPC) or to both National Classification and IPC

Int.Cl.⁵ B25B5/02

II. FIELDS SEARCHED

Minimum Documentation Searched ⁷

Classification System	Classification Symbols
Int.Cl. ⁵	B25B

Documentation Searched other than Minimum Documentation
to the Extent that such Documents are Included in the Fields Searched ⁸

III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹

Category ¹⁰	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	WO,A,8602873 (N.PAPPAS) 22 May 1986 see the whole document	1, 2, 7, 9, 10
Y	---	3
X	US,A,4555100 (J.R. DITTO) 26 November 1985 see column 3, line 36 - column 4, line 4; figures 1.10 269/166	1, 2, 7, 9,10
X	US,A,2510077 (R.K. COFFMAN) 6 June 1950 see column 1, line 29 - column 2, line 16; figures 1-4 269/166	1, 2, 10
Y	US,A,4834352 (W. THORNTORN) 30 May 1989 269/6 see column 4, line 12 - column 4, line 18; figures 1, 4, 5	3
A	FR,A,1423020 (R.A.ETIENNE) 22 November 1965 see page 1, right-hand column, line 23 - page 2, left-hand column, line 21; figure 1	1, 2,10

¹⁰ Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

IV. CERTIFICATION

Date of the Actual Completion of the International Search

26 June 1991 (26.06.91)

International Searching Authority

European Patent Office

Date of Mailing of this International Search Report

24 July 1991 (24.07.91)

Signature of Authorized Officer

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)

Category *	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No
A	US,A,2487997 (R.R.WEST) 15 November 1949 see column 2, line 52 - column 3, line 49; figure 1 <i>269/3</i>	1, 2, 10
A	DE,A,3209984 (F.AUST) 19 May 1983 see figure 1	5
A	US,A,4770400 (W.QUESTEL) 13 September 1988 see abstract; figures 1, 3 <i>269/104</i>	8
A	EP,A,80960 (P.BERNA ET AL.) 8 June 1983 (cited in the application)	